Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of the Claims:

What is claimed is:

1.   (Currently Amended) A method comprising:

obtaining performance data on ~~multiple~~ a first programs ~~that~~ run on a first system configuration of a ~~at least one~~ system and obtaining performance data on the first program run on a second system configuration of the system, the performance data including a ~~first~~ separate system profile for the ~~each~~ program corresponding to the first and second system configurations, the performance data obtained from a tool; and

automatically sorting the performance data for each profile to allow for comparison between profiles.

2.   (Currently Amended) The method of claim 1 further comprising:

~~obtaining performance data on multiple programs that run on a second system, the performance data including a second system profile for each program obtained from the tool; and~~

~~automatically sorting the performance data for each profile to allow for comparison between profiles.~~

obtaining performance data on the first program run on a first system configuration of a second system and obtaining performance data on the first program run on a second system configuration of the second system, the performance data including a separate system profile for the program corresponding to the first and second system configurations of the second system, the performance data obtained from a tool; and

automatically sorting the performance data for each profile to allow for comparison between profiles.

3. (Original) The method of claim 2 further comprising comparing the performance data of the first system with the second system.

4. (Original) The method of claim 3 further comprising:

obtaining additional performance data for both systems using the tool;

automatically sorting the additional performance data of both systems; and

comparing the additional performance data of the first system with the second system.

5. (Original) The method of claim 1 wherein obtaining performance data on a number of programs that run on a system comprises:

collecting data on multiple programs run on a system during a sampling period

based on performance counters; and

transferring the data to a file.

6.   (Original) The method of claim 5 wherein one performance counter is

clockticks.

7.   (Original) The method of claim 5 wherein one performance counter is retired

instructions.

8.   (Original) The method of claim 5 wherein one performance counter is cache

misses.

9.   (Original) The method of claim 1 wherein automatically sorting and

prioritizing the performance data for each profile to allow for comparison between

profiles comprises:

dividing an address range of each program into a number of bins; and

listing the performance data for each bin according to specified criteria.

10.   (Original) The method of claim 9 wherein the specified criteria is time-based.

11. (Original) The method of claim 1 wherein automatically sorting the performance data for each profile to allow for comparison between profiles comprises:

dividing each profile for each program into a number of modules and functions; and

listing the performance data for each module and each function.

12. (Original) The method of claim 1 further comprising transferring the sorted data onto a file.

13. (Original) The method of claim 1 further comprising displaying the sorted information on a display.

14. (Original) The method of claim 1 wherein the performance data profiles include central processing unit (CPU) event measurements.

15. (Currently Amended) The method of claim 1 wherein the first system is a first processor and the second system is a second processor.

16. (Currently Amended) A machine-readable storage medium tangibly embodying a sequence of instructions executable by the machine to perform a method, the method comprising:

~~obtaining performance data on multiple programs that run on a system, the~~ ~~performance data including a first system profile for each program obtained from a~~ ~~tool; and~~

~~automatically sorting the performance data for each profile to allow for~~ ~~comparison between profiles.~~

obtaining performance data on a first program run on a first system configuration of a system and obtaining performance data on the first program run on a second system configuration of the system, the performance data including a separate system profile for the program corresponding to the first and second system configurations, the performance data obtained from a tool; and

automatically sorting the performance data for each profile to allow for comparison between profiles.

17.   (Original) The machine-readable storage medium of claim 16 wherein the performance data profiles include central processing unit (CPU) event measurements.

18.   (Original) The machine-readable storage medium of claim 16 wherein the system is a processor.

19.   (Currently Amended) A system comprising:

A tool to obtain performance data on first program run on a first system

configuration of a system and to obtain performance data on the first program run

on a second system configuration of the system, the performance data to include a

separate system profile for the program corresponding to the first and second

system configurations, the performance data to be obtained from a tool; and~~a tool to~~

~~obtain performance data on multiple programs that run on at least one system, the~~

~~performance data including a profile for each program obtained from a tool~~; and

a sorter to automatically sort the performance data for each profile to allow

for comparison between profiles.

20.   (Original) The system of claim 19 further comprising a comparator to

compare the profiles.

21.   (Original) The system of claim 19 further comprising a display to

display the sorted information.

22.   (Currently Amended)The system of claim 19 wherein the performance data

profiles is to includes central processing unit (CPU) event measurements.

23.   (Original) The system of claim 22 wherein the system is a processor.

24.   (Currently Amended) The system of claim 19 wherein the tool is to obtains

performance data collected according to performance counters.

25.   (Original) The system of claim 24 wherein one performance counter is

clockticks.

26.   (Original) The system of claim 24 wherein one performance counter is retired

instructions.

27.   (Original) The system of claim 24 wherein one performance counter is cache

misses.